



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

October 3, 2003

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.in.gov/idem](http://www.in.gov/idem)

TO: Interested Parties / Applicant

RE: Indiana Glass Company-Dunkirk Plant / 075-17351-0003

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

## Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER-AM.dot 9/16/03

- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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October 3, 2003

Mr. Kris Ector  
Indiana Glass Company - Dunkirk Plant  
R.R. 2 Box 171  
Dunkirk, Indiana 47336

Re: Exempt Construction and Operation Status  
075-17351, Plt ID 075-00003

Dear Mr Ector:

The application from Indiana Glass Company, received on March 10, 2003 has been reviewed. Based on the data submitted and the provisions provided in 326 IAC 2-1.1-3, it has been determined that the operation of the remaining facilities located at 717 East Street, Dunkirk, Indiana, are classified as exempt from air pollution permit requirements.

The existing mold shop at this source now consists of the following facilities/units:

- (a) One (1) grit blaster used for mold cleaning, identified as GB-3, equipped with a baghouse with a maximum capacity of 0.6 pounds per hour
- (b) Two (2) parts washers, referred to as C2 and C3, constructed in 1995, each with a maximum capacity of 30 gallons

Each of these facilities were previously determined to be insignificant activities, as documented in the Part 70 Operating Permit, T075-5949-00003 issued on December 17, 1998. All of the other air pollution generating facilities at this source have been removed and will no longer be operated at this source. All manufacturing activities at this source ceased as of November 26, 2002. The source has retained only the shipping and warehousing operations and will perform minor mold equipment repairs. As a result of the changes the standard industrial classification (SIC) for the source has been changed from 3225 to 4225, General Warehousing.

The baghouse associated with the grit blaster has been determined to be an integral part of the grit blaster. The grit blaster is used for mold repairs. The baghouse collects the pneumatically propelled grit from the blaster so that the grit can be continuously reused. The primary purpose of the baghouse is to collect the grit that is being used in the blasting process. The cost of replacing the grit, if it was not collected, would be uneconomically high. Therefore the potential to emit particulate from the grit blaster is assessed after control. The potential to emit particulate from this grit blaster, GB-3, has been determined to 0.831 pounds per hour equivalent to 3.64 tons per year as shown on page 1 of 2 of the attached Appendix A.

The total potential to emit VOC from the parts washers C2 and C3 is 1.81 tons per year. The total potential to emit hazardous air pollutants (HAPs) is 0.037 tons per year. These emission calculations are presented on page 2 of 2 of the attached Appendix A.

The total potential to emit of the source is now below permitting levels for all regulated pollutants. Therefore pursuant to 326 IAC 2-1.1-3 the source is operating at an exempt level of operation. The Part 70 Operating permit for this source will be revoked as the source is no longer subject to the requirements of Part 70.

The following conditions shall be applicable to the remaining facilities:

- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemption Alternative Opacity Limitations), opacity shall meet the following:
  - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- (b) Pursuant to 326 IAC 6-3-2 (Process Operations) the particulate matter (PM) from the grit blaster GB-3 shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (c) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control) the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) the solvent is agitated; or
    - (C) the solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (d) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control) the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
  - (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original Signed by  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

FPC/MES

cc: File - Jay County  
Air Compliance - Ryan Hillman  
Permit Tracking  
Air Programs Section - Michele Boner

**Appendix A: Emission Calculations  
Grit Blasting**

Page 1 of 2 App A

**Company Name: Indiana Glass Company - Dunkirk Plant**  
**Address City IN Zip: 77 East Street, Dunkirk, Indiana 47336**  
**Exemption No.: 075-17351**  
**Plt ID: 075-00003**  
**Reviewer: Frank P. Castelli**  
**Date: March 10, 2003**

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM Emission Rate before Controls (lb/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lb/hr)	PM Emission Rate after Controls (tons/yr)
Grit Blaster GB-3	99.9%	0.0097	10000	N/A	N/A	0.831	3.64

**Methodology**

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

The baghouse is an integral part of the grit blaster. Therefore the potential to emit before controls is not applicable.

Parts Washers C1 and C2

**Appendix A: Emissions Calculations  
VOC and HAPs  
From Parts Washing Operations**

App. A Page 2

**Company Name:** Indiana Glass Company - Dunkirk Plant  
**Address City IN Zip:** 77 East Street, Dunkirk, Indiana 47336  
**Exemption No.:** 075-17351  
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**Reviewer:** Frank P. Castelli  
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Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat Used per Day.	Pounds VOC per gallon of solvent less water	Pounds VOC per gallon of solvent	Potential VOC (pounds per day)	Potential VOC (tons per year)
<b>Washer C1</b>											
IC Solvent	7.90	100.00%	0.0%	100.0%	0.0%	0.00%	0.01800	7.90	7.90	0.142	0.623
HAP (6% Naphthalene)									HAP	0.009	0.037
<b>Washer C2</b>											
Safety Clean Premium Gold	6.80	100.00%	0.0%	100.0%	0.0%	0.00%	0.04000	6.80	6.80	0.272	1.19
No HAPs											

<b>PTE</b>	<b>VOC</b>	<b>0.414</b>	<b>1.81</b>
<b>PTE</b>	<b>Single HAP</b>	<b>0.009</b>	<b>0.037</b>